Notice of Allowability	Application No.	Applicant(s)	
	10/624,687	LEE ET AL.	
	Examiner	Art Unit	
	Tuan N. Nguyen	2828	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31	ears on the cover sheet was (OR REMAINS) CLOSED or other appropriate commander of the coverage of the c	in this application. If not included nunication will be mailed in due cou	rse. THIS
1. This communication is responsive to 12/14/2005.			
2. 🔀 The allowed claim(s) is/are <u>1-24</u> .			j
 Acknowledgment is made of a claim for foreign priority u a) All b) Some[*] c) None of the: 1. Certified copies of the priority documents hav 		or (f).	
Certified copies of the priority documents have	e been received in Applicati	on No	
Copies of the certified copies of the priority do	ocuments have been receive	ed in this national stage application	from the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to fil MENT of this application.	e a reply complying with the require	ements
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv 	nitted. Note the attached EX res reason(s) why the oath o	AMINER'S AMENDMENT or NOTI or declaration is deficient.	CE OF
5. CORRECTED DRAWINGS (as "replacement sheets") mu	st be submitted.		
(a) I including changes required by the Notice of Draftspers	son's Patent Drawing Revie	w (PTO-948) attached	
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date	_,		
(b) ☐ including changes required by the attached Examiner Paper No./Mail Date	's Amendment / Comment o	or in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in			k) of
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 	osit of BIOLOGICAL MAT FOR THE DEPOSIT OF BI	ERIAL must be submitted. Note OLOGICAL MATERIAL.	the
Attachment(s)	E 🗆 Nakina of I	eformed Detect Application (DTO 45	
 Notice of References Cited (PTO-892) DNotice of Draftperson's Patent Drawing Review (PTO-948) 		nformal Patent Application (PTO-15 Summary (PTO-413),	<i>\</i> 2)
z. Notice of Draitperson's Patent Drawing Review (P10-946)		/Mail Date	
 Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 	08), 7. 🗌 Examiner's	Amendment/Comment	
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛭 Examiner's	Statement of Reasons for Allowan	ice
or biological Material	9.	<u>-</u> ·	
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REASON FOR ALLOWANCE

Allowable Subject Matter

2. The following is an examiner's statement of reasons for allowance - Applicant's response filed on 12/14/2005 has been considered, with respect to claim 1 the references of the record fail to teach or suggest:

Claim 1:

A semiconductor optoelectronic device comprising an active layer between the upper and lower waveguide, having an upper and lower cladding on the upper and under lower waveguide layer, and an upper and lower optical confinement layers between the active layer and the upper waveguide layer and between the active layer and lower waveguide layer, respectively, and having an energy gap that is smaller than those of the upper and lower waveguide layers but greater than that of the active layer.

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Communication Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan N Nguyen whose telephone number is (571) 272-1948. The examiner can normally be reached on M-F.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Harvey Minsun can be reached on (571) 272-1835. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tuan N. Nguyen

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